			Prepared by: Date: Reviewed by:	Jan 10, 2006	
					_
			Approved by:	1-13-06 Demos	-
				D. I. Lowen	stein
			Date:	1/13/06	
				,	
AtR RSC Check-C	off List for Pro e, to be Trans				on
Completion of this AtR R beam, produced by the po					n-
The "NO FEB" Check off completion of this AtR Che After the completion of this removed to allow polarized	eck off List. s List the LOTO	imposed by the	"NO FEB" Cl		
1(LP_FEB) Th	e NO FEB Chec	k off List has	been complete	ed	
		(Da	te/Time)		
		,	rson)		
The V line MUST remain	LOTO during	the AtR and R	HIC operation	ns.	
2. (LPV) VD3	3&4 power supply	y LOTO:			
	(Tag #) (Lock #)			(Date/Time) (Person))
The following devices in time period required to					ng the
3.0(LPRHIC) R	HIC RSC Check	off List comple	ete.		

OR

	3.1.1	ATR Switch magnet power			
		(LPRHIC)	lock#	tag#	date
	3.1.2	X-line arc (psxarc90) power	supply or leads	LOTO	
		(LPRHIC)	lock#	tag#	date
	3.1.3	Y-line arc (psyarc90) power	supply or leads	LOTO	
		(LPRHIC)			date
4	(LEUup) U-line upstream area shi	elding and barr	iers inspected	and acceptable.
5	(LEUdo	wn) U-line downstream area	shielding and b	arriers inspect	ed and acceptable.
6		V-Block house shielding and operations.	barriers inspect	ted and accept	able for AtR
7	(LEW)	W-line area shielding and bar	riers inspected	and acceptable	e.
8	(LEU) I	Berm Fence Inspected.			
9	(RCD)	Post AtR Berm Fence as for Radiation Area, Controlled a training office. Contact MCF	rea, RWP requ		cated at the bldg. 911
10	(RCD)	Post AtR beam Access gate High Radiation Area w/Bea required, RWP located at th entry at x-4662.	m On, Radiatio		
11	(RSCC	Shield plug for TOF port	eviewed and ap	pproved for A	tR operation.
12	(SGL)	Chipmunks required for U-	line-upstream i	n place (See a	ttached list).
13	(SGL)	Chipmunks required for W-l needed (See attached list).	ine tested, in p	lace, including	g interlock function as
14	(SGL)	PASS tests complete for run	ning beam to th	ne W-line dum	ip.

15	(IGH)	The AGS B15 Current transformer is functional and will allow an upper limit of 6.5×10^{11} protons per AGS cycle. This limit is equivalent to 39 mAmps and has been approved. (J. Glenn Jan. 12 2006 RSC_File and RSC minutes April 1 2004) (AGS cycle = 1.3 sec)
16	_(MCR)	Procedure in place to limit the number of protons lost in the Injection arcs (X,Y) of AtR to less than 1.7×10^{13} in an hour. In order to relate proton limit to Au limit in C-A TPL 01-15; 1.7×10^{13} protons In one hour is equivalent to 1.7×10^{11} Au ions in one hour.
17	(LPAtR)	When all items of this AtR List have been completed the restriction of preventing protons from the polarized ions source beyond the 8° may be removed (item #4) and proton bunches from the polarized proton source may be extracted into the AtR line.
18	(OC) Li	st completion verified by on-duty operations coordinator.
		ove items have been completed, the LOTO of all the devices appearing in emoved and the following items #19 and #20 and #21 should be signed off.
19	(ACG)	Chipmunk NM051 (access by UGE1 Gate) a)chipmunk interlock DISABLED b)unit to be positioned in the labyrinth of UGE1 Gate.
20	(ACG)	Chipmunk NM078 (access by UGE1) a)chipmunk interlock DISABLED b)unit to be positioned on the FEB 0° spur.
21	(ACG)	Chipmunks listed in items #19 and #20, above, functional, tests of interlock complete, are monitored by computer, and function correctly

Now proton beam may be extracted from the AGS to the W-line beam dump.

ES&H Env. and Safety Coord. A. Etkin

IGH Instrumentation Group Head (Thomas Russo)

RCD: Radiation Controlled Division (D. Ryan or designate)

LEUdown) J. Scaduto D. Phillips LEUup: LEW: D. Phillips C. Pearson LEV: LPFEB: N. Tsoupas N. Tsoupas LPU: LPV: N. Tsoupas LPW: N. Tsoupas LPRHIC: A. Drees

MCRGL: MCR Group Leader: Peter Ingrassia (or designate)

RSC: Radiation Safety Committee member

RSCC: Radiation Safety Committee Chairperson: D. Beavis or designate

SEP: AGS S&EP representative

SGL: Security Group Leader J. Reich (or designate)

OC: Operations Coordinator

ACG Access Control Group (J. Reich or designate)

RCT Radiation Control Technician

U-LINE CHIPMUNKS

Name	Location	Trip Level mrem/hr	Comments
NMO208	Outside gate VPGE1 (outer entrance blockhouse)	By-Pass	
NMO209	On berm downstream of VQ9 next to NMO210	20.0	
NMO210	On berm downstream of VQ9 next to NMO209	20.0	
NMO211	Dehumidifier room (igloo)	2.5	
NMO213	Outside gate UGE1 (upstream entrance to U-line)	20.0	
NMO222	On berm besides vent shaft over 0-degrees alcove	20.0	Optional
NMO223	At corner of substation nearest upstream U-line	20.0	Optional
NMO81	Inside UGE2	20.0	
NMO82	U/S WEST-U LINE-1	2.5	
NMO83	U/S WEST-U LINE-2	2.5	
NMO84	U/S WEST-Hg TGT	2.5	
NMO85	D/S ULINE BLOCKHSE	2.5	
NMO86	Inside UGE3	20.0	

W-LINE CHIPMUNKS

Name	Location	Trip Level mrem/hr	Comments
NMO216	South edge of Thompson Rd. above Y-line. Another chipmunk connected in series placed on North edge	2.5	
NMO217	South edge of Thompson Rd. above X-line. Another chipmunk connected in series placed on North edge	2.5	
NMO218	Inside weather door at gate WGE2	2.5	
NMO219[1]	Downstream of W-line shield wall	2.5	

^[1] NMO219 interlock is disabled when beam is allowed in W-line